APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,675	12/28/2001	Harold Ray Hurst	60027.0095US01/BS00258	4603

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EXAMINER
CHOW, CHARLES CHIANG

ART UNIT	PAPER NUMBER
2685	

DATE MAILED: 09/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _12/28/2001_.

2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-22_ is/are pending in the application.

  4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-22_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on _28 December 2001_ is/are: a)☒ accepted or b)☐ objected to by the Examiner.

  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

  a)☐ All b)☐ Some * c)☐ None of:

  1.☐ Certified copies of the priority documents have been received.

  2.☐ Certified copies of the priority documents have been received in Application No. _____.

  3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

  * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
  Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
  Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

Detailed Action

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1-13, 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sheridan et al. (US 6,725,032 B1) in view of Lozano et al. (US 5,982,869).

Regarding **claim 1**, Sheridan et al. (Sheridan) teaches a method of formatting data for populating a telecommunications switch, comprising the steps of downloading output formatted data from switch (the user work station 304 enters new configuration data, of the formatting data, for a component of the switching unit 216, and transmitting configuration data in HTML page to cell configuration system 302, for populating a switch; the cell configuration system 302 processing the received configuration data signal, saving the configuration data, and reconfiguring the switching unit 216 according to the received specified configuration data from work station 304, col. 5, line 61 to col. 6, line 6; the cell site 108 comprised a switch 204, Fig. 2, col. 3, lines 37- 48, abstract, Fig. 9, Fig. 15-24; the downloading by opening browser 314 on work station 304, for receiving configuration data in graphic representation of the components belongs to cell site 108, col. 5, lines 51-60), the editing the input formatted data (the navigation module 702 has screen, graphic representation of the cell components, to allow user to select the components to generate new configuration data, col. 8, line 53 to col. 9, line 18; the reconfiguring the switch according to

the parameters specified in the configuration data, col. 6, lines 3-6), the transmitting the input

formatted data to the switch and populating the switch with the input formatted data (the

work station 304 transmits configuration data to cell site 108 for re-configuration of the

switching unit 216 according to the parameter specified in the configuration data, col. 5, line

61 to col. 6, line 6). Sheridan fails to teach the converting the output formatted data into input

formatted data acceptable for input to the switch, editing the input formatted data, although

Sheridan teaches the cell configuration system 302 can format data for storing in database

(col. 4, lines 24-29), the reformatting when configuration error occurs for rouging associated

with DS0, DS1 (col. 7, lines 24-30). However, Lozano et al. (Lozano) teaches the converting

the output formatted data into input formatted data acceptable for input to the switch (the

converting format of routing table for plurality of switches, col. 2, line 8-17, col. 14, line 61

to col. 15, line 4; the converting, automatically configuring the call routing for international

calls by providing a set of routing table to the switches, col. 1, line 61 to col. 2, line 7; the

downloading routing table into each switch in col. 4, lines 57-67;the different class of the

switches, class 1-5, col. 3 line 19 to col. 4, line 9; the commSHIP software for uploading,

downloading routing table to switch in col. 11, line 54 to col. 13, line 47, Fig. 1-9; the

adding, changing, deleting routing data in co.. 12, lines 10-25). Lozano teaches an improved

technique for routing telephone calls for different countries, by flexibly reconfiguring the

routing table in a switch (col. 1, lines 15-57). Therefore, it would have been obvious to one

of ordinary skill in the art at the time of invention to modify Sheridan with Lozano's

converting the format of the routing table for reconfiguring a switch, such that the telephone

calls could be flexibly routed to the other counties.

Regarding **claim 2**, Sheridan teaches the step of opening a link between a first computer system (304) and the switch (the switch 216 in cell site 108, the opening link in col. 5, lines 11-21; col. 5, lines 51-54), and transmitting the input formatted data to the switch via the link between the first computer and the switch (the work station 304 receiving the configuration data in graphical representation for the component in cell site 108, for user to enter new configuration, col. 5, line 54 to col. 6, line 6).

Regarding **claim 3**, Sheridan teaches the opening a telenet session a the first computing system (the opening a browser 314 on work station 304 in col. 5, lines 51-54) and establishing a communications link for transmitting data to and from the first computer system and the switch (the work station 304 establish connection with cell configuration system 302 for receiving configuration components of the cell site 108 in graphical representation, col. 5, lines 11-21; col. 5, lines 36-60).

Regarding **claim 4**, Sheridan teaches the steps of launching a data formatting program on the first computer system (the opening browser 314-316 in col. 5, lines 11-21, the graphical representation in col. 5, lines 51-54) and opening a graphic user interface for receiving downloaded output formatted data to switch (the graphical representation on work station 304 col. 5, lines 51-60; the user graphical display interface in col. 4, line 42 to col. 5, line 3), for reconfiguring, formatting, the switch components.

Regarding **claim 5**, Lozano teaches the editing the input formatted data including adding new data to the input formatted data according to the format of the input formatted data (the CommSHIP 706 for managing switches 714-720, by adding, changing, deleting routing data, col. 12, lines 11-25).

Regarding **claim 6**, Lozano teaches the step of deleting data from input formatted data (col. 12, lines 11-25).

Regarding **claim 7**, Lozano teaches the step of transmitting the input formatted data to a second switch (the transmitting reformatted unique routing table to each switch, for the second switch, col. 15, lines 34-44).

Regarding **claim 8**, Lozano teaches the transmitting the input formatted data to a plurality of switches (the transmitting reformatted unique routing table to each switch, for the plurality of switches, col. 15, lines 34-44; plurality of switches in col. 6, line 23 to col. 7, line 19).

Regarding **claim 9**, Lozano teaches the step for populating a second switch with the input formatted data (the populating routing table to second switch, by transmitting reformatted routing table to each unique switch, col. 4, lines 57-63; col. 15, lines 34-44).

Regarding **claim 10**, Lozano teaches the step of populating a plurality of switches with the input formatted data (the reformatting routing table for each unique switch, col. 4, lines 57-63; col. 15, lines 34-44, for each particular, plurality of switches, col. 6, line 23 to col. 7, line 19).

Regarding **claim 11**, Lozano teaches the new data is NPA-NXXX data (the routing of call connection based on the NXXX 206 for the identified local central office (col. 4, lines 19-42).

Regarding **claim 12**, Lozano teaches the data including the routing information for call processing (the reformatted routing table for plurality of unique switches, col. 4, lines 57-63; col. 15, lines 34-44).

Regarding **claim 13**, Sheridan teaches a method of formatting data for populating a wireless

telecommunications switch (Fig. 10, switch 1004 for wireless communication in col. 12, line

22 to col. 13, line17), with roaming information for roaming wireless telephone (the

configuration module to enable entry of new configuration data for the remote cell site, for

the roaming user in a wireless system in col. 23, lines 33-47; col. 24, lines 51-64; col. 25,

lines 43-54), entering communication link data for establishing roaming service on roaming

wireless telecommunication switch (the switch selection and configuration in Fig. 13 for

configuring cell site 108 in Fig. 10 in col. 15, lines 13-20, the reconfiguring of the switch

from switch selection and configuration 1310 in col. 15, line 49 to col. 16, line 23), the

editing the input formatted data (the navigation module 702 has screen, graphic

representation of the cell components, to allow user to select the components to generate new

configuration data, col. 8, line 53 to col. 9, line 18; the reconfiguring the switch according to

the parameters specified in the configuration data, col. 6, lines 3-6), the transmitting the input

formatted data to the switch (the work station 304 transmits configuration data to cell site

108 for re-configuration of the switching unit 216 according to the parameter specified in the

configuration data, col. 5, line 61 to col. 6, line 6). Sheridan fails to teach the converting the

output formatted data into input formatted data acceptable for input to the switch, editing the

input formatted data, although Sheridan teaches the cell configuration system 302 can format

data for storing in database (col. 4, lines 24-29), the reformatting when configuration error

occurs for rouging associated with DS0, DS1 (col. 7, lines 24-30). However, Lozano et al.

(Lozano) teaches the converting the output formatted data into input formatted data

acceptable for input to the switch (the converting format of routing table for plurality of

switches, col. 2, line 8-17, col. 14, line 61 to col. 15, line 4; the converting, automatically

configuring the call routing for international calls by providing a set of routing table to the

switches, col. 1, line 61 to col. 2, line 7; the downloading routing table into each switch in

col. 4, lines 57-67;the different class of the switches, class 1-5, col. 3 line 19 to col. 4, line 9;

the commSHIP software for uploading, downloading routing table to switch in col. 11, line

54 to col. 13, line 47, Fig. 1-9; the adding, changing, deleting routing data in co.. 12, lines

10-25). Lozano teaches an improved technique for routing telephone calls for different

countries, by flexibly reconfiguring the routing table in a switch (col. 1, lines 15-57).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of

invention to modify Sheridan with Lozano's converting the format of the routing table for

reconfiguring a switch, such that the telephone calls could be flexibly routed to the other

counties.

Regarding **claim 16**, Sheridan teaches a method of formatting data for populating a

telecommunications switch, comprising a data communication program (browser 314)

operative to downloading output formatted data from switch (the browser 314 receiving

graphical representation of cell site component, downloaded from cell configuration 302, for

reconfiguration in col. 5, line 51 to col. 6, line 6), to copy the output formatted data to the

graphic user interface of a switch script building program (the user graphic interface for

configuring switch components in col. 4, line 30 to col. 5, line 21), to allow editing the input

formatted data, to copy the input formatted data into data communication program (the

navigation module 702 has screen, graphic representation of the cell components, to allow

user to select the components to generate new configuration data, col. 8, line 53 to col. 9, line

18; the reconfiguring the switch according to the parameters specified in the configuration

data, col. 6, lines 3-6), the data communication program further operative to transmitting the

input formatted data to the switch and to populate the switch with the input formatted data

(the work station 304 transmits configuration data to cell site 108 for re-configuration of the

switching unit 216 according to the parameter specified in the configuration data, col. 5, line

61 to col. 6, line 6). Sheridan fails to teach the converting the output formatted data into input

formatted data acceptable for input to the switch, editing the input formatted data, although

Sheridan teaches the cell configuration system 302 can format data for storing in database

(col. 4, lines 24-29), the reformatting when configuration error occurs for rouging associated

with DS0, DS1 (col. 7, lines 24-30). However, Lozano et al. (Lozano) teaches the converting

the output formatted data into input formatted data acceptable for input to the switch (the

converting format of routing table for plurality of switches, col. 2, line 8-17, col. 14, line 61

to col. 15, line 4; the converting, automatically configuring the call routing for international

calls by providing a set of routing table to the switches, col. 1, line 61 to col. 2, line 7; the

downloading routing table into each switch in col. 4, lines 57-67;the different class of the

switches, class 1-5, col. 3 line 19 to col. 4, line 9; the commSHIP software for uploading,

downloading routing table to switch in col. 11, line 54 to col. 13, line 47, Fig. 1-9; the

adding, changing, deleting routing data in co.. 12, lines 10-25). Lozano teaches an improved

technique for routing telephone calls for different countries, by flexibly reconfiguring the

routing table in a switch (col. 1, lines 15-57). Therefore, it would have been obvious to one

of ordinary skill in the art at the time of invention to modify Sheridan with Lozano's

converting the format of the routing table for reconfiguring a switch, such that the telephone calls could be flexibly routed to the other counties.

Regarding **claim 17**, Sheridan teaches the opening a telenet session a the first computing system (the opening a browser 314 on work station 304 in col. 5, lines 51-54) and establishing a communications link for transmitting data to and from the first computer system and the switch (the work station 304 establish connection with cell configuration system 302 for receiving configuration components of the cell site 108 in graphical representation, col. 5, lines 11-21; col. 5, lines 36-60).

Regarding **claim 18**, Sheridan teaches a method of formatting data for populating a telecommunications switch, comprising the steps of downloading output formatted data from switch launching a data formatted program, copying the output formatted data into graphicial user interface (the downloading by opening data formatted program browser 314 on work station 304, for receiving configuration data in graphic representation of the components belongs to cell site 108, col. 5, lines 51-60), the opening a graphical user interface for receiving downloaded output formatted data from the switch (the user interface for receiving configuration data from switch 216 in cell site 108 in col. 4, line 15 to col. 5, line 21), the editing the input formatted data (the navigation module 702 has screen, graphic representation of the cell components, to allow user to select the components to generate new configuration data, col. 8, line 53 to col. 9, line 18; the reconfiguring the switch according to the parameters specified in the configuration data, col. 6, lines 3-6), the transmitting the input formatted data to the switch and populating the switch with the input formatted data (the work station 304 transmits configuration data to cell site 108 for re-configuration of the

switching unit 216 according to the parameter specified in the configuration data, col. 5, line

61 to col. 6, line 6). Sheridan fails to teach the converting the output formatted data into input

formatted data acceptable for input to the switch, editing the input formatted data, although

Sheridan teaches the cell configuration system 302 can format data for storing in database

(col. 4, lines 24-29), the reformatting when configuration error occurs for rouging associated

with DS0, DS1 (col. 7, lines 24-30). However, Lozano et al. (Lozano) teaches the converting

the output formatted data into input formatted data acceptable for input to the switch (the

converting format of routing table for plurality of switches, col. 2, line 8-17, col. 14, line 61

to col. 15, line 4; the converting, automatically configuring the call routing for international

calls by providing a set of routing table to the switches, col. 1, line 61 to col. 2, line 7; the

downloading routing table into each switch in col. 4, lines 57-67;the different class of the

switches, class 1-5, col. 3 line 19 to col. 4, line 9; the commSHIP software for uploading,

downloading routing table to switch in col. 11, line 54 to col. 13, line 47, Fig. 1-9; the

adding, changing, deleting routing data in co.. 12, lines 10-25). Lozano teaches an improved

technique for routing telephone calls for different countries, by flexibly reconfiguring the

routing table in a switch (col. 1, lines 15-57). Therefore, it would have been obvious to one

of ordinary skill in the art at the time of invention to modify Sheridan with Lozano's

converting the format of the routing table for reconfiguring a switch, such that the telephone

calls could be flexibly routed to the other counties.

Regarding **claim 19**, Lozano teaches the editing the input formatted data including adding

new data to the input formatted data according to the format of the input formatted data (the

CommSHIP 706 for managing switches 714-720, by adding, changing, deleting routing data, col. 12, lines 11-25).

Regarding **claim 20**, Lozano teaches the step of deleting data from input formatted data (col. 12, lines 11-25).

Regarding **claim 21**, Lozano teaches the step of transmitting the input formatted data to a second switch (the transmitting reformatted unique routing table to each switch, for the second switch, col. 15, lines 34-44).

Regarding **claim 22**, Lozano teaches the transmitting the input formatted data to a plurality of switches (the transmitting reformatted unique routing table to each switch, for the plurality of switches, col. 15, lines 34-44; plurality of switches in col. 6, line 23 to col. 7, line 19).

2. Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sheridan in view of Lozano, and further in view of Amin et al. (Us 5,845,207).

Regarding **claim 14**, Sheridan teaches the transmitting the output formatted data to the switch comprising downloading output formatted data on a roaming wireless communication for populating at the switch, by converting the output format data of the wireless remote cell site to user for reconfiguring of the cell site switch unit 216, as shown in claim 13 above. Sheridan and Lozano fail to teach the combining the input formatted data for the wireless telephone with the input formatted communication data. However, Amin et al. (Amin) teaches the second combined input formatted data to wireless communication network for routing call connection based on the received call code and augmenting information from a second telephone (abstract, Fig. Fig. 3C; col. 8, line 56 to col. 9, line 3), for combining the

input formatted data from a wireless telephone. Amin teaches the call forwarding can be

flexible according to the data profile from a second wireless telephone, for the speed dialing

(col. 1, line 44 to col. 2, line 46). Therefore, it would have been obvious to one of ordinary

skill in the art at the time of invention to modify Sheridan above with Amin's call routing

based on the data received from second wireless telephone for speed dialing, such that the

system could be upgraded by routing the call connection flexibly according to the data from a

second telephone.

Regarding **claim 15**, Amin taught above the transmitting the input formatted data from

wireless telephone (second combined input formatted data to wireless communication

network for routing call connection based on the received call code and augmenting

information from a second telephone (abstract, Fig. Fig. 3C; col. 8, line 56 to col. 9, line 3;

for combining the input formatted data from a wireless telephone). Sheridan taught above the

input formatted communication link data to the switch 216, and the populating the switch

with the input formatted data from a wireless work station associated with a remote cell site;

for the populating the switch with combing input formatted data for Amin's wireless

telephone and Sheridan's input formatted communication link data of the work station.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

A. US 6,574,661 B1, June 2003, Delano et al. teaches the software tool for enabling

customer of the telecommunications network to modify the configuration of the routing plan,

the reconfiguration of the routing plan (abstract, Fig. 8-15, col. 3, lines 31-64; col. 16, line 58

to col. 17, line 25).

4.   Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Charles Chow whose telephone number is (703)-306-5615.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Edward Urban, can be reached at (703)-305-4385.

Any response to this action should be mailed to:

        Commissioner of Patents and Trademarks
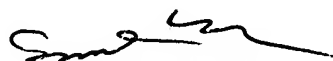
        Washington, D.C. 20231

or faxed to: (703) 872-9306 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Technology Center 2600 Customer Service Office

whose telephone number is (703) 306-0377.

Charles Chow $\mathcal{C}.\mathcal{C}.$

August 31, 2004.

                                                    EDWARD F. URBAN
                                             SUPERVISORY PATENT EXAMINER
                                                TECHNOLOGY CENTER 2600